

Daowen Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5377788/publications.pdf>

Version: 2024-02-01

75
papers

4,368
citations

172457

29
h-index

114465

63
g-index

76
all docs

76
docs citations

76
times ranked

5384
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise base editing in rice, wheat and maize with a Cas9-cytidine deaminase fusion. <i>Nature Biotechnology</i> , 2017, 35, 438-440.	17.5	690
2	Cytosine, but not adenine, base editors induce genome-wide off-target mutations in rice. <i>Science</i> , 2019, 364, 292-295.	12.6	491
3	Genome sequence of the progenitor of wheat A subgenome <i>Triticum urartu</i> . <i>Nature</i> , 2018, 557, 424-428.	27.8	354
4	Genome editing of upstream open reading frames enables translational control in plants. <i>Nature Biotechnology</i> , 2018, 36, 894-898.	17.5	244
5	Analysis of the functions of <i>TaGW2</i> homoeologs in wheat grain weight and protein content traits. <i>Plant Journal</i> , 2018, 94, 857-866.	5.7	211
6	A high-quality genome assembly highlights rye genomic characteristics and agronomically important genes. <i>Nature Genetics</i> , 2021, 53, 574-584.	21.4	164
7	Single-molecule real-time transcript sequencing facilitates common wheat genome annotation and grain transcriptome research. <i>BMC Genomics</i> , 2015, 16, 1039.	2.8	124
8	GDP-mannose pyrophosphorylase is a genetic determinant of ammonium sensitivity in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18308-18313.	7.1	116
9	Molecular analysis of common wheat genes encoding three types of cytosolic heat shock protein 90 (Hsp90): functional involvement of cytosolic Hsp90s in the control of wheat seedling growth and disease resistance. <i>New Phytologist</i> , 2011, 191, 418-431.	7.3	108
10	Association Analysis of Genomic Loci Important for Grain Weight Control in Elite Common Wheat Varieties Cultivated with Variable Water and Fertiliser Supply. <i>PLoS ONE</i> , 2013, 8, e57853.	2.5	104
11	Natural variation of <i>TaGASR7-A1</i> affects grain length in common wheat under multiple cultivation conditions. <i>Molecular Breeding</i> , 2014, 34, 937-947.	2.1	102
12	Heat stress-induced transposon activation correlates with 3D chromatin organization rearrangement in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2020, 11, 1886.	12.8	102
13	Pandemonium Breaks Out: Disruption of Salicylic Acid-Mediated Defense by Plant Pathogens. <i>Molecular Plant</i> , 2018, 11, 1427-1439.	8.3	101
14	Molecular and functional analysis of phosphomannomutase (PMM) from higher plants and genetic evidence for the involvement of PMM in ascorbic acid biosynthesis in <i>Arabidopsis</i> and <i>Nicotiana benthamiana</i> . <i>Plant Journal</i> , 2007, 49, 399-413.	5.7	99
15	Gene Duplication and Evolution Dynamics in the Homeologous Regions Harboring Multiple Prolamin and Resistance Gene Families in Hexaploid Wheat. <i>Frontiers in Plant Science</i> , 2018, 9, 673.	3.6	84
16	NPR1 Promotes Its Own and Target Gene Expression in Plant Defense by Recruiting CDK8. <i>Plant Physiology</i> , 2019, 181, 289-304.	4.8	84
17	New Insights into the Organization, Recombination, Expression and Functional Mechanism of Low Molecular Weight Glutenin Subunit Genes in Bread Wheat. <i>PLoS ONE</i> , 2010, 5, e13548.	2.5	74
18	Genome-wide analysis of complex wheat gliadins, the dominant carriers of celiac disease epitopes. <i>Scientific Reports</i> , 2017, 7, 44609.	3.3	71

#	ARTICLE	IF	CITATIONS
19	Transcriptome analysis reveals differentially expressed storage protein transcripts in seeds of <i>Aegilops</i> and wheat. <i>Journal of Cereal Science</i> , 2006, 44, 75-85.	3.7	63
20	Reprogramming and remodeling: transcriptional and epigenetic regulation of salicylic acid-mediated plant defense. <i>Journal of Experimental Botany</i> , 2020, 71, 5256-5268.	4.8	50
21	Genomic and functional genomics analyses of gluten proteins and prospect for simultaneous improvement of end-use and health-related traits in wheat. <i>Theoretical and Applied Genetics</i> , 2020, 133, 1521-1539.	3.6	49
22	Molecular analysis of lipoxygenase (LOX) genes in common wheat and phylogenetic investigation of LOX proteins from model and crop plants. <i>Journal of Cereal Science</i> , 2010, 52, 387-394.	3.7	48
23	Homology-mediated inter-chromosomal interactions in hexaploid wheat lead to specific subgenome territories following polyploidization and introgression. <i>Genome Biology</i> , 2021, 22, 26.	8.8	47
24	SnRK1 Phosphorylates and Destabilizes WRKY3 to Enhance Barley Immunity to Powdery Mildew. <i>Plant Communications</i> , 2020, 1, 100083.	7.7	34
25	Rapid evolutionary dynamics in a 2.8â€Mb chromosomal region containing multiple prolamin and resistance gene families in <i>Aegilops tauschii</i> . <i>Plant Journal</i> , 2016, 87, 495-506.	5.7	33
26	The <i>TuMYB46L</i> module regulates ethylene biosynthesis in einkorn wheat defense to powdery mildew. <i>New Phytologist</i> , 2020, 225, 2526-2541.	7.3	33
27	Contrasting patterns in the spread of two seed-borne viruses in pea embryos. <i>Plant Journal</i> , 1997, 11, 1333-1340.	5.7	32
28	Dissecting and Enhancing the Contributions of High-Molecular-Weight Glutenin Subunits to Dough Functionality and Bread Quality. <i>Molecular Plant</i> , 2015, 8, 332-334.	8.3	32
29	Further genetic analysis of a major quantitative trait locus controlling root length and related traits in common wheat. <i>Molecular Breeding</i> , 2014, 33, 975-985.	2.1	31
30	Two interacting transcriptional coactivators cooperatively control plant immune responses. <i>Science Advances</i> , 2021, 7, eabl7173.	10.3	31
31	Coexpression network analysis of the genes regulated by two types of resistance responses to powdery mildew in wheat. <i>Scientific Reports</i> , 2016, 6, 23805.	3.3	29
32	New insights into structural organization and gene duplication in a 1.75â€Mb genomic region harboring the gliadin gene family in <i>Aegilops tauschii</i> , the source of wheat D genome. <i>Plant Journal</i> , 2017, 92, 571-583.	5.7	29
33	Efficient and fine mapping of RMES1 conferring resistance to sorghum aphid <i>Melanaphis sacchari</i> . <i>Molecular Breeding</i> , 2013, 31, 777-784.	2.1	28
34	New insight into the function of wheat glutenin proteins as investigated with two series of genetic mutants. <i>Scientific Reports</i> , 2017, 7, 3428.	3.3	28
35	ThMYC4E, candidate Blue aleurone 1 gene controlling the associated trait in <i>Triticum aestivum</i> . <i>PLoS ONE</i> , 2017, 12, e0181116.	2.5	28
36	A transgenic wheat with a stilbene synthase gene resistant to powdery mildew obtained by biolistic method. <i>Science Bulletin</i> , 2000, 45, 634-638.	1.7	26

#	ARTICLE	IF	CITATIONS
37	High-throughput mining of genome-specific <i>scn</i> SNPs for characterizing <i>Thinopyrum elongatum</i> introgressions in common wheat. <i>Molecular Ecology Resources</i> , 2017, 17, 1318-1329.	4.8	22
38	Achieving Plant Genome Editing While Bypassing Tissue Culture. <i>Trends in Plant Science</i> , 2020, 25, 427-429.	8.8	22
39	Analysis of the <i>Gli-2</i> locus identifies a genetic target for simultaneously improving the breadmaking and health-related traits of common wheat. <i>Plant Journal</i> , 2018, 95, 414-426.	5.7	19
40	Molecular analysis of phosphomannomutase (PMM) genes reveals a unique PMM duplication event in diverse Triticeae species and the main PMM isozymes in bread wheat tissues. <i>BMC Plant Biology</i> , 2010, 10, 214.	3.6	18
41	Molecular characterization of a novel type of lipoxygenase (LOX) gene from common wheat (<i>Triticum</i>) Tj ETQq1 1 0.784314 pgBT /Over	2.1	18
42	A recent burst of gene duplications in Triticeae. <i>Plant Communications</i> , 2022, 3, 100268.	7.7	18
43	Haplotype Variation of Glu-D1 Locus and the Origin of Glu-D1d Allele Conferring Superior End-Use Qualities in Common Wheat. <i>PLoS ONE</i> , 2013, 8, e74859.	2.5	17
44	TaPHT1;9 and its transcriptional regulator TaMYB4 contribute to phosphate uptake and plant growth in bread wheat. <i>New Phytologist</i> , 2021, 231, 1968-1983.	7.3	17
45	Wheat heat tolerance is impaired by heightened deletions in the distal end of 4AL chromosomal arm. <i>Plant Biotechnology Journal</i> , 2021, 19, 1038-1051.	8.3	16
46	Development and characterization of marker-free and transgene insertion site-defined transgenic wheat with improved grain storability and fatty acid content. <i>Plant Biotechnology Journal</i> , 2020, 18, 129-140.	8.3	15
47	Interaction between the movement protein of barley yellow dwarf virus and the cell nuclear envelope: Role of a putative amphiphilic α -helix at the N-terminus of the movement protein. <i>Biopolymers</i> , 2005, 79, 86-96.	2.4	13
48	CRISPR editing-mediated antiviral immunity: a versatile source of resistance to combat plant virus infections. <i>Science China Life Sciences</i> , 2019, 62, 1246-1249.	4.9	13
49	Molecular and functional analysis of hypoxanthine-guanine phosphoribosyltransferase from <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2007, 175, 448-461.	7.3	12
50	Molecular and Functional Characterization of Sphingosine-1-Phosphate Lyase Homolog from Higher Plants. <i>Journal of Integrative Plant Biology</i> , 2007, 49, 323-335.	8.5	12
51	Helitron and CACTA DNA transposons actively reshape the common wheat - AK58 genome. <i>Genomics</i> , 2022, 114, 110288.	2.9	12
52	Identification and Characterization of High-Molecular-Weight Glutenin Subunits from <i>Agropyron</i> intermedium. <i>PLoS ONE</i> , 2014, 9, e87477.	2.5	11
53	Grain-specific reduction in lipoxygenase activity improves flour color quality and seed longevity in common wheat. <i>Molecular Breeding</i> , 2015, 35, 1.	2.1	11
54	Assessment of the individual and combined effects of Rht8 and Ppd-D1a on plant height, time to heading and yield traits in common wheat. <i>Crop Journal</i> , 2019, 7, 845-856.	5.2	11

#	ARTICLE	IF	CITATIONS
55	Efficient expression and function of a receptor-like kinase in wheat powdery mildew defence require an intron-located MYB binding site. <i>Plant Biotechnology Journal</i> , 2021, 19, 897-909.	8.3	11
56	The BZR1-EDS1 module regulates plant growth-defense coordination. <i>Molecular Plant</i> , 2021, 14, 2072-2087.	8.3	11
57	The Interplay between Hydrogen Sulfide and Phytohormone Signaling Pathways under Challenging Environments. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4272.	4.1	11
58	A novel allele of L-galactono-1,4-lactone dehydrogenase is associated with enhanced drought tolerance through affecting stomatal aperture in common wheat. <i>Scientific Reports</i> , 2016, 6, 30177.	3.3	10
59	A distinct class of plant and animal viral proteins that disrupt mitosis by directly interrupting the mitotic entry switch Wee1-Cdc25-Cdk1. <i>Science Advances</i> , 2020, 6, eaba3418.	10.3	10
60	A potential nuclear envelope-targeting domain and an arginine-rich RNA binding element identified in the putative movement protein of the GAV strain of Barley yellow dwarf virus. <i>Functional Plant Biology</i> , 2008, 35, 40.	2.1	8
61	Wide hybridization: engineering the next leap in wheat yield. <i>Journal of Genetics and Genomics</i> , 2009, 36, 509-510.	3.9	8
62	Transcriptional Coactivators: Driving Force of Plant Immunity. <i>Frontiers in Plant Science</i> , 2022, 13, 823937.	3.6	7
63	Identification of new T1BL.1RS translocation lines derived from wheat (<i>Triticum aestivum</i> L. cultivar) Tj ETQq1 1 0.784314 rgBT /Over	2.1	5
64	Reduction of root flavonoid level and its potential involvement in lateral root emergence in <i>Arabidopsis thaliana</i> grown under low phosphate supply. <i>Functional Plant Biology</i> , 2009, 36, 564.	2.1	5
65	Development of a new set of molecular markers for examining Glu-A1 variants in common wheat and ancestral species. <i>PLoS ONE</i> , 2017, 12, e0180766.	2.5	5
66	The florigen interactor BdES43 represses flowering in the model temperate grass <i>Brachypodium distachyon</i> . <i>Plant Journal</i> , 2020, 102, 262-275.	5.7	5
67	The distribution of cotransformed transgenes in particle bombardment-mediated transformed wheat. <i>Transgenic Research</i> , 2015, 24, 1055-1063.	2.4	4
68	Connecting the Dots: A New and Complete Salicylic Acid Biosynthesis Pathway. <i>Molecular Plant</i> , 2019, 12, 1539-1541.	8.3	4
69	Partial suppression of l-galactono-1,4-lactone dehydrogenase causes significant reduction in leaf water loss through decreasing stomatal aperture size in <i>Arabidopsis</i> . <i>Plant Growth Regulation</i> , 2014, 72, 171-179.	3.4	3
70	Genetic Analysis of Chromosomal Loci Affecting the Content of Insoluble Glutenin in Common Wheat. <i>Journal of Genetics and Genomics</i> , 2015, 42, 495-505.	3.9	3
71	Reactions of <i>Triticum urartu</i> accessions to two races of the wheat yellow rust pathogen. <i>Crop Journal</i> , 2018, 6, 509-515.	5.2	2
72	Dissecting and enhancing the contributions of high-molecular-weight glutenin subunits to dough functionality and bread quality. <i>Molecular Plant</i> , 2014, , .	8.3	1

#	ARTICLE	IF	CITATIONS
73	Degradation without ubiquitination: new function of a parasite effector. Trends in Parasitology, 2021, 37, 1024-1026.	3.3	1
74	Hijacking of host mitochondria by Toxoplasma gondii and SARS-CoV-2. Trends in Parasitology, 2022, 38, 269-271.	3.3	1
75	Assembling the Rye Genome. Compendium of Plant Genomes, 2021, , 101-116.	0.5	0